```
111111111
                                                                   TTTTTTTTTTTTT
                    TITITITITITI
                                                                                   LLL
                    LLL
                                                                   TTTTTTTTTTTTT
                                                                                   LLL
                                             888
888
888
888
                                 888
                                                  RRR
LLL
                       III
                                                              RRR
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                                  RRR
                                                              RRR
LLL
                                                                         TIT
                                                                                    LLL
                                 888
888
                                                  RRR
                                                              RRR
                       H
LLL
                                                                         TTT
                                                                                    LLL
                                                  RRR
                                                              RRR
                       III
LLL
                                                                         TIT
                                                                                    LLL
                                 888
                                             BBB
                                                              RRR
                                                  RRR
                       III
LLL
                                                                         TTT
                                                                                    LLL
                                 BBB
                                             BBB
                       III
                                                  RRR
                                                              RRR
LLL
                                                                         TIT
                                                                                    LLL
                                 III
                                                  RRRRRRRRRRR
LLL
                                                                         TTT
                                                                                    LLL
                                                  RRRRRRRRRRRR
LLL
                       111
                                                                         TIT
                                                                                    LLL
                                 88888888888
                                                  RRRRRRRRRRRR
LLL
                       111
                                                                         TIT
                                                                                    LLL
                                 888
                                                  RRR
                                                        RRR
                                             BBB
LLL
                       111
                                                                         TTT
                                                                                    LLL
                                 BBB
                                             BBB
                                                  RRR
                                                        RRR
                       111
LLL
                                                                         TIT
                                                                                    LLL
                       ĬĬĬ
                                 888
                                                  RRR
                                                        RRR
LLL
                                             BBB
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                             BBB
                                                  RRR
LLL
                                                           RRR
                                                                         TTT
                                                                                    LLL
                       III
                                 888
                                             BBB
                                                  RRR
LLL
                                                           RRR
                                                                         TTT
                                                                                    LLL
LLL
                       111
                                 BBB
                                             BBB
                                                  RRR
                                                           RRR
                                                                         TIT
                                                                                    LLL
                                 LLLLLLLLLLLLLLL
                    1111111111
                                                  RRR
                                                              RRR
                                                                         TTT
                                                                                    LLLLLLLLLLLLL
LLLLLLLLLLLLLL
                    RRR
                                                              RRR
                                                                         TTT
                                                                                   LLLLLLLLLLLLLL
RRR
                                                              RRR
                    111111111
                                                                         III
                                                                                   LLLLLLLLLLLLLL
```

Sy

	88888888 88888888 88 88 88 88 88 88 88 88 888888	XX	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	VV	•••
	\$				

LI

G 8 - extract a signed extended variable bit 16-SEP-1984 00:07:57 VAX/VMS Macro V04-00 LIBSEXTV Table of contents Page 0 DECLARATIONS
LIBSEXTV - extract and sign extend a field (<u>2)</u> (3) 49 72

```
0000
0000
0000
                          .TITLE LIBSEXTV - extract a signed extended variable bit field
                          .IDENT /1-002/
                                                                     : File: LIBEXTV.MAR
ŎŎŎŎ
0000
0000
0000
                    COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000
               *
0000
                    ALL RIGHTS RESERVED.
               *
0000
          10
                   THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000
               *
0000
              *
0000
          14
0000
               *
0000
              : *
0000
          16
               .
                    TRANSFERRED.
0000
              ; *
0000
          18
                    THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000
          19
              .
                    AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000
                    CORPORATION.
               : *
0000
0000
                    DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
               *
                    SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000
0000
0000
0000
0000
0000
0000
0000
                FACILITY: General Utility Library
0000
0000
                 ABSTRACT:
0000
0000
                         Return a longword field which has been extracted from the specified
0000
          35
                         variable bit field.
0000
0000
                 ENVIRONMENT: User Mode, AST Reentrant
0000
           38
0000
0000
                 AUTHOR: Donald G. Petersen, CREATION DATE: 30-Dec-77
0000
          41
0000
          42
                 MODIFIED BY:
0000
0000
          44
                         Donald G. Petersen, : VERSION 00
0000
          45
                         - Original
                 1-001 - Update version number and copyright notice. JBS 16-NOV-78 1-002 - Add ''_'' to PSECT directive. JBS 21-DEC-78
0000
```

H 8

0000

- extract a signed extended variable bit 16-SEP-1984 00:07:57 VAX/VMS Macro V04-00

6-SEP-1984 11:06:41 [LIBRTL.SRC]LIBEXTV.MAR;1

Page

(1)

.PSECT _LIB\$CODE PIC, SHR, LONG, EXE, NOWRT

```
9012345678901234567890
                        .SBTTL DECLARATIONS
                 INCLUDE FILES:
                  MACROS:
               EQUATED SYMBOLS:
                  OWN STORAGE:
               PSECT DECLARATIONS:
```

50

OC BC

08 BC

```
.SBTTL LIBSEXTV - extract and sign extend a field
                          76
77
78
79
                                        Return a signed extended longword field which has been extracted from the specified variable bit field. If a size of zero is specified, then a zero is returned. Specifying a size greater than 31 results in a reserved
                                        operand fault.
                          80
88
88
88
88
88
88
                                CALLING SEQUENCE:
                                        field.wlu.v = LIB$EXTV (pos.rl.r, size.rbu.r, base.rv.r)
  00000008
                                        POSITION = 4
                                                                                  ; Adr. of longword containing position
                          86
87
               0000
                                        S12E = 8
                                                                                  ; Adr. of byte containing size of field
  0000000
               0000
                                        BASE = 12
                                                                                  : Adr. of base of field
               0000
                          88
                          89
                        90123
9999
9999
9999
10023
10067
1007
               0000
                                INPUT PARAMETERS:
               0000
               0000
                                        NONE
               0000
               0000
                                IMPLICIT INPUTS:
               0000
               0000
                                        NONE
               0000
               0000
                                OUTPUT PARAMETERS:
               0000
               0000
                                        NONE
               0000
               0000
                                IMPLICIT OUTPUTS:
               0000
               0000
                                        NONE
               0000
               0000
                                FUNCTION VALUE:
                        108
               0000
                                        field
               0000
                        110
               0000
                                SIDE EFFECTS:
               0000
                        111
                        112
               0000
                                        SS$ROPRAND - reserved operand fault for size greater than 31
               0000
                        114
                        115
               ŎŎŎŎ
                        116
                        117
       0000
               0000
                                        .ENTRY LIBSEXTV, ^M<>
                                                                                  :Entry point
                0002
                         118
                        119
               0002
04 BC
          EE
                                        EXTV
                                                  aposition(AP), asize(AP), -
                        120
121
122
                ÖÖÖÄ
                                                  abase(AP), RO
                                                                                             : extract
          04
               000A
                                        RET
               000B
                                        .END
```

Page

_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

O GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:LIBEXTV/OBJ=OBJ\$:LIBEXTV MSRC\$:LIBEXTV/UPDATE=(ENH\$:LIBEXTV)

0

0206 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

